SHARP



INSTALLATION/ TWAIN DRIVER OPERATION MANUAL

MODEL

AR-C262M AR-BC320

DIGITAL FULL COLOUR MULTIFUNCTIONAL SYSTEM

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Be sure to become thoroughly familiar with this manual to gain the maximum benefit from the product.

Before installing this product, be sure to read the installation requirements and cautions sections of the "Operation manual (for general information and copier operation)".

Be sure to keep all operation manuals handy for reference including this manual, the "Operation manual (for general information and copier operation)" and operation manuals for any optional equipment which has been installed.

This equipment complies with the requirements of Directives 89/336/EEC and 73/23/EEC as amended by 93/68/EEC.

Dieses Gerät entspricht den Anforderungen der EG-Richtlinien 89/336/EWG und 73/23/EWG mit Änderung 93/68/EWG.

Ce matériel répond aux exigences contenues dans les directives 89/336/CEE et 73/23/CEE modifiées par la directive 93/68/CEE.

Dit apparaat voldoet aan de eisen van de richtlijnen 89/336/EEG en 73/23/EEG, gewijzigd door 93/68/EEG.

Dette udstyr overholder kravene i direktiv nr. 89/336/EEC og 73/23/EEC med tillæg nr. 93/68/EEC.

Quest' apparecchio è conforme ai requisiti delle direttive 89/336/EEC e 73/23/EEC, come emendata dalla direttiva 93/68/EEC.

Η εγκατάσταση αυτή ανταποκρίνεται στις απαιτήσεις των οδηγιών της Ευρωπαϊκής Ενωσης 89/336/ΕΟΚ και 73/23/ΕΟΚ, όπως οι κανονισμοί αυτοί συμπληρώθηκαν από την οδηγία 93/68/ΕΟΚ.

Este equipamento obedece às exigências das directivas 89/336/CEE e 73/23/CEE, na sua versão corrigida pela directiva 93/68/CEE.

Este aparato satisface las exigencias de las Directivas 89/336/CEE y 73/23/CEE, modificadas por medio de la 93/68/CEE.

Denna utrustning uppfyller kraven enligt riktlinjerna 89/336/EEC och 73/23/EEC så som kompletteras av 93/68/EEC.

Dette produktet oppfyller betingelsene i direktivene 89/336/EEC og 73/23/EEC i endringen 93/68/EEC.

Tämä laite täyttää direktiivien 89/336/EEC ja 73/23/EEC vaatimukset, joita on muutettu direktiivillä 93/68/EEC.

The CE mark logo label is affixed on an equipment in case that the directives described in the above sentence are applicable to the product. (This sentence is not applicable in any country where the above directives are not required.)

Warning:

This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Warranty

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The display screens, messages, and key names shown in the manual may differ from those on the actual machine due to product improvements and modifications.

INTRODUCTION

Thank you for purchasing this product. This manual explains how to install the printer driver and utilities required for the printer function, and how to use the "SHARP MFP TWAIN C" scanner driver (hereafter referred to as "TWAIN driver").

To use the printer function, please read the manual indicated below (online manual) in addition to this manual. To use the TWAIN driver to scan from a computer, please see "Setup for scanning" (page 2) and then refer to the indicated pages. (To use the scanner function, the optional devices such as the network scanner expansion kit (ARNS2) are required.)

Installation guide (for printer) (this manual)

Explains the contents of the CD-ROM that is included with the product and the procedure for installing the software.

Manuals for use of the printer function

Operation manual (for printer)

This manual can be found in the "Software CD-ROM".

This contains information on using the printer function, including printer settings, how to print, printing from the operation panel of the machine, troubleshooting, and key operator programs for the printer function.

Help files installed with the software in the "Software CD-ROM"

- Printer Status Monitor Help file
- Printer Administration Utility Help file

Print Server Card Online Manual

Print Server Card Online Manual

This manual is on the "Software CD-ROM". Refer to this manual when using the machine in a network environment.

SOFTWARE LICENCE

The SOFTWARE LICENCE will appear when you install the software from the CD-ROM. By using all or any portion of the software on the CD-ROM or in the machine, you are agreeing to be bound by the terms of the SOFTWARE LICENCE.

Manuals for use of the network scanner function

Operation manual (for network scanner)

This manual can be found in the "Software CD-ROM".

Read this manual for information on using Scan to FTP, Scan to E-mail, and other network scanner functions. To use the scanner function, the network scanner expansion kit (AR-NS2) is required. For more information, see page 1 of the "Operation manual (for network scanner)".

TWAIN driver

TWAIN is an interface standard for scanners and other image input devices. By installing the TWAIN driver, you can scan using any application that supports the TWAIN standard.

■ How the TWAIN driver differs from the network scanner

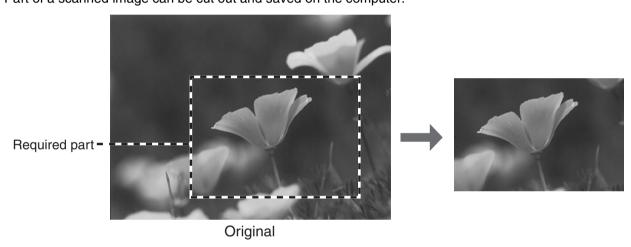
The scanner function of the TWAIN driver differs from the scanner function of the optional network scanner expansion kit as indicated below (for more information, see page 3 of the "Operation manual (for network scanner)").

Using the network scanner function

Multiple originals can be scanned continuously.

Using the TWAIN driver (SHARP MFP TWAIN C)

Fine adjustments can be made to the image while viewing it on the computer. Part of a scanned image can be cut out and saved on the computer.



■ Setup for scanning

Perform the following procedures to set up for scanning with the TWAIN driver.

Procedure	Page
Installing the TWAIN driver	Page 19
Setting the IP address	Page 21
Scanning with the TWAIN driver	Page 22
 Place the original and switch the machine to PC SCAN mode 	
Select the device	
Open the TWAIN driver	
Select scan settings	
 Scan the original and save the image 	

ABOUT THE CD-ROM

This product includes the "Software CD-ROM". This CD-ROM contains the software indicated below.

■ Integrated wizard-type installer for the utilities below and online manuals

This CD-ROM contains a wizard-type installer for installation of the following utilities, and online manuals.

PCL5c Printer Driver:

The printer driver that is required for use of this product.

Printer Administration Utility*1:

When using the printer in a network environment, this administration utility makes it possible to configure printer settings and monitor the printer from a computer. (This utility is for use by system administrators.)

● Printer Status Monitor*1:

When using the printer in a network environment, this provides messages and displays that allow you to monitor the status of the printer.

■ Scanner driver (Twain)*2

TWAIN is an interface standard for scanners and other image input devices. By installing the TWAIN driver, you can scan using any application that supports the TWAIN standard.

NICManager

Use this program to configure and check the IP address when the machine is connected to a network.

Acrobat Reader 5.0

This program is used to view the online manuals on your computer screen.

Online Manuals (see the previous page)

Manuals in PDF format that are viewed using Adobe Acrobat Reader.

To view online manuals, specify the path as follows (where "R" represents the letter of your CD-ROM drive):

R:\Printer Manual\EnglishA\Prn AR C262M BC320.pdf

R:\Scanner_Manual\EnglishA\Scn_AR_C262M_BC320.pdf

- *1 To use the printer status monitor and the printer administration utility, the machine must be connected to a network.
- *2 The Twain driver (SHARP MFP TWAIN C) can only be used on a network port. A parallel port or USB port cannot be used.
 - \cdot When using the Twain driver in Windows NT 4.0, you must log on with administrator's rights.

■ Setup utilities and manuals for use of the machine as a network printer

Please read before using (Readme):

Contains information on using the utilities, viewing the online manuals, and restrictions.

Print Server Card Quick Setup:

This is a wizard-type utility for Windows 95, Windows 98, Windows Me, Windows NT 4.0, Windows 2000, Windows XP and Windows Server 2003 that allows you to conveniently configure the print server.

Print Server Card Standard Setup:

This installs and launches "NICManager", which enables administration and configuration of advanced print server settings.

● SC-Print2000 Install:

This installs software for direct printing from Windows 95, Windows 98 and Windows Me to the machine. LPR (only for this machine) or IPP can be selected.

Online Manual:

This manual in PDF format explains the settings and procedures required for using the machine as a network printer.

R:\Tool\Manual\English

INSTALLING THE PRINTER DRIVER AND UTILITIES (SOFTWARE INSTALLATION)

The procedures for installing the printer driver and utilities (hereafter called "software") required for use of the machine as a printer are explained in this section. There are two ways of installing the printer driver: using the installer in the "Software CD-ROM", and using the "Add printer wizard".

To print from a Macintosh environment, the optional PS3 Expansion Kit is required.

1. Installation using the installer

The software programs installed and the steps for installation vary depending on the version of Windows you are running and the type of connection to your computer. Refer to the table below and select the installation method that matches your environment.

Windows version Type of connection to printer	Windows XP*1/Server 2003*1	Windows NT 4.0*1/2000*1	Windows Me	Windows 95/98	
LAN cable connection	Installation method 1				
USB cable connection ²	Installation	Installation method 3			
Parallel cable connection	method 2		Installation method 4		

Installation method 1 Follow the procedure from page 5 to page 10. Installation method 2 Follow the procedure on page 11 to page 12. Installation method 3 Follow the procedure on page 13 to page 14. Installation method 4 Follow the procedure on page 15 to page 16.

2. Installation of the printer driver using the "Add printer wizard"

Installation of the printer driver using the "Add printer wizard" is performed using basic Windows procedures.

To install the printer driver by this method, see page 17.

In case of upgrading the version of currently installed printer driver, delete the currently installed printer driver first and then install the new printer driver.

To uninstall the printer driver, see page 16.

3. About network environments

There are several types of network environments. The explanations in this manual assume that your operating system is Windows and that TCP/IP protocol is used in your network environment.

^{*}1 To install the software from the CD-ROM, you must have administrator rights.

^{*2} Windows 95 and Windows NT 4.0 are not supported.

Installation method 1

Use this procedure to install the software in the following environments:

- 1. Printer connected by LAN cable
- 2. Windows version: Windows 95/98/Me/NT 4.0/2000/XP/Server 2003

The following procedure uses Windows XP as an example. Follow the same steps to install the software on other operating systems.

Before installing the software, make sure that the machine is connected to the network with a network cable.

About network environments

There are several types of network environments. Typical environments include the following:

Windows network environment

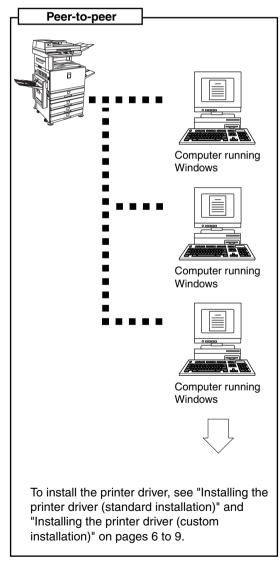
UNIX network environment

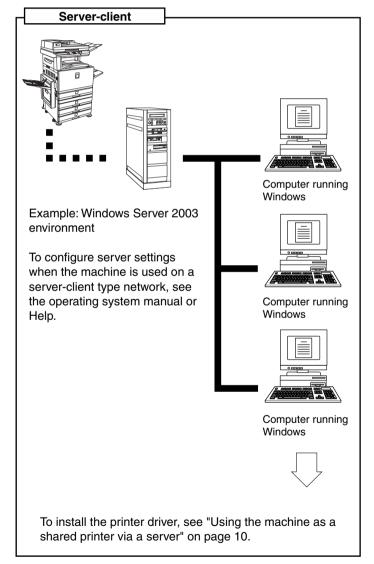
NetWare network environment

Macintosh network environment

This manual explains peer-to-peer and server-client network connections in a Windows environment. If the machine is used in a different network environment, see the online manual (Print Server Card User's Manual) on the "Software CD-ROM".

Network connection examples





TCP/IP protocol

Microsoft Printing Protocol

■ Set the IP address of the machine

Before installing the printer driver, set the IP address of the machine using the appropriate key operator program. For this procedure, see Key Operator Programs (page 6-6) in the "Operation manual (for printer)" (in PDF format) in the "Software CD-ROM". The factory default setting for the IP address is "DHCP", which means that the IP address is set automatically.

If you are not using the machine in a DHCP environment, ask your network administrator for the IP address, Subnet mask, and Default gateway to be used for the machine, and then input this information into the key operator program.

NOTE

If DHCP is used, the IP address assigned to the machine may be changed automatically on occasion. If this happens, printing will not be possible.

To use DHCP on this machine, please configure a DHCP reservation. Or, if you make fixed IP address setting, the problem will be resolved.

■ Installing the printer driver (standard installation)

The procedure for a standard installation of the printer driver is explained below. This procedure is normally used when the printer driver will be used with a network connection.

To use the machine as a network printer in Windows NT 4.0, "TCP/IP Protocol" must be installed on your computer. If this is not installed, install as explained in Windows NT 4.0 Help.

NOTE

When installing the printer driver, if you wish to install a display font or specify the IP address of the machine by direct entry, select [Custom installation]. (page 8)

- Insert the "Software CD-ROM" that accompanied the machine into your CD-ROM drive.
- 2 Click the [start] button, click [My Computer], and then double-click the CD-ROM icon.

In Windows 95/98/Me/NT 4.0/2000, double-click [My Computer], and then double-click the CD-ROM icon.

- 3 Double-click the [SETUP] icon.
- The Licence Agreement window will appear. Make sure that you understand the contents of the licence agreement, and then click the [Yes] button.
- 5 After confirming the message in the "Welcome" window, click the [Next] button.

6 Click the [Printer Driver] button.

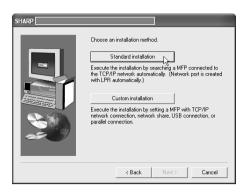
To view detailed information on the software, click the [Display Readme] button.



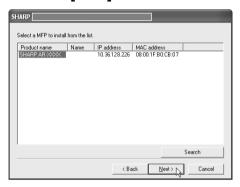
- If you wish to install the printer status monitor or the Scanner driver, click the [Utility Software] button in this window and then click the [Printer Status Monitor] or [Scanner Driver] button and follow the on-screen instructions.
 - If you installed the scanner driver, read the separate supplementary manual after completing installation.
- If you wish to install the printer administration utility, click the [Administrator Tools] button in this window and then click the [Printer Administration Utility] button and follow the on-screen instructions.

7 Click the [Next] button.

R Click the [Standard installation] button.



9 The printers that are connected to the network are found. Select the machine and click the [Next] button.



If the machine is not found, make sure that the machine is powered on and connected to your computer and then search again. If the machine is still not found, use the custom installation procedure to directly specify the IP address (page 8).

- 10^A confirmation window will appear. Read the contents and click the [Next] button.
- 11 Select the printer driver being installed as the default printer and click the [Next] button.
- 12Check the contents of the window and click the [Next] button.

Installation of the printer driver begins.

NOTE

When you are using Windows 2000/XP/Server 2003

If a warning message regarding the Windows logo test or digital signature appears, be sure to click the [Continue Anyway] or [Yes] button.

- 13 When the finish setup window appears, click the [OK] button.
- 14Click the [Close] button.

NOTE

A message prompting you to restart your computer may appear after installation is finished. If this message appears, click [Yes] to restart your computer.

This completes the installation.

■ Installing the printer driver (custom installation)

The procedure for a custom installation of the printer driver is explained here. Select [Custom installation] if you wish to install a display font or directly specify the IP address of the machine.

- 1 Insert the "Software CD-ROM" that accompanied the machine into your CD-ROM drive.
- Click the [start] button, click [My Computer], and then double-click the CD-ROM icon.

In Windows 95/98/Me/NT 4.0/2000, double-click [My Computer], and then double-click the CD-ROM icon.

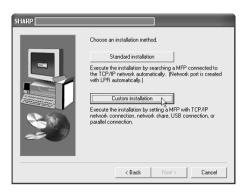
- **Q** Double-click the [SETUP] icon.
- 4 The Licence Agreement window will appear. Make sure that you understand the contents of the licence agreement, and then click the [Yes] button.
- 5 After confirming the message in the "Welcome" window, click the [Next] button.
- 6 Click the [Printer Driver] button.

To view detailed information on the software, click the [Display Readme] button.

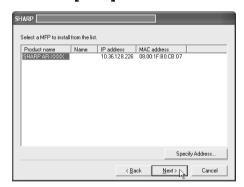


- If you wish to install the printer status monitor or the Scanner driver, click the [Utility Software] button in this window and then click the [Printer Status Monitor] or [Scanner Driver] button and follow the on-screen instructions.
 - If you installed the scanner driver, read the separate supplementary manual after completing installation.
- If you wish to install the printer administration utility, click the [Administrator Tools] button in this window and then click the [Printer Administration Utility] button and follow the on-screen instructions.

- **7** Click the [Next] button.
- **Q** Click the [Custom installation] button.



- 9 Select the [LPR Direct Print] and click the [Next] button.
- 10 The printers that are connected to the network are found. Select the machine and click the [Next] button.



If you wish to directly specify the IP address, click the [Specify Address] button, enter the IP address, and click the [Search] button.

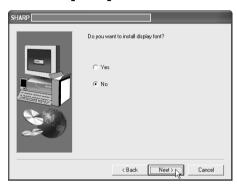
Be sure to ask your network administrator for the correct IP address to be entered.

11 A confirmation window will appear. Read the contents and click the [Next] button.

- 12 Select the printer driver being installed as the default printer and click the [Next] button.
- 13 When the printer name window appears, click the [Next] button.

If you wish to change the printer name, enter the desired name.

14 When you are asked if you wish to install the display font, select an answer and click the [Next] button.



15 Check the contents of the window and click the [Next] button.

Installation of the printer driver begins.

NOTE

When you are using Windows 2000/XP/Server 2003

If a warning message regarding the Windows logo test or digital signature appears, be sure to click the [Continue Anyway] or [Yes] button.

- 16 When the finish setup window appears, click the [OK] button.
- 17Click the [Close] button.

NOTE

A message prompting you to restart your computer may appear after installation is finished. If this message appears, click [Yes] to restart your computer.

This completes the installation.

Using the machine as a shared printer via a server

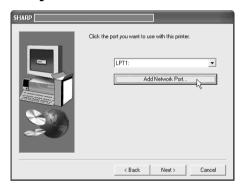
If the printer server in a Windows NT server environment, NetWare server environment, or other environment is configured to share the printer (the machine), follow the steps below to install the printer driver in each client computer.

Ask your network administrator for the server name and printer name of the machine on the network.

NOTE

For the procedure for configuring settings in the printer server, see the operating system manual or Help. The "printer server" explained here is a computer that is connected to the machine, and "clients" are other computers connected to the same network as the printer server.

- 1 Perform steps 1 through 8 of "Installing the printer driver (Custom installation)" on page 8.
- 2 Select the [Shared Printer] and click the [Next] button.
- When you are asked to select the printer port to be used, click the [Add Network Port] button.



4 Select the network printer that is shared and click the [OK] button.

Ask your network administrator for the server name and printer name of the machine on the network.



- 5 In the printer port selection window, verify the network printer that is shared and click the [Next] button.
- When you are asked to select the model name, select the model that you are using and click the [Next] button.
- **7** Perform step 12 through 17 of "Installing the printer driver (custom installation)" on page 9.

This completes the installation.

Installation method 2

Use this procedure to install the software in the following environments:

- 1. The printer is connected by USB cable or parallel cable.
- 2. Windows version: Windows XP/Server 2003

NOTE

To install this software, you must have administrator's rights.

Installing the software in Windows XP/Server 2003 (USB/parallel interface)

Install the software as follows.

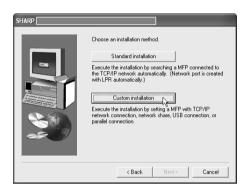
Before starting the installation, make sure the USB or parallel interface cable is not connected to the machine.

- 1 Insert the "Software CD-ROM" that accompanied the machine into your CD-ROM drive.
- Click the [start] button, select [My Computer], and then double-click the CD-ROM icon.
- 3 Double-click the [SETUP] icon.
- The Licence Agreement window will appear. Make sure that you understand the contents of the licence agreement, and then click the [Yes] button.
- 5 After confirming the message in the "Welcome" window, click the [Next] button.
- 6 Click the [Printer Driver] button.

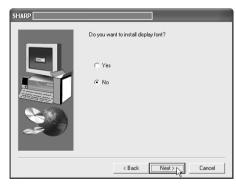
To view detailed information on the software, click the [Display Readme] button.



- **7** Click the [Next] button.
- **R** Click the [Custom installation] button.



- **9** Click the [Connected to this computer] and click the [Next] button.
- 10When you are asked if you wish to install the display font, select an answer and click the [Next] button.



11 Follow the on-screen instructions to install the printer driver.

If a warning message regarding the Windows logo test appears while the printer driver files are being copied (the warning message may appear several times), be sure to click the [Continue Anyway] button.

12When the finish setup window appears, click the [OK] button.

13When the finish installation window appears, click the [Close] button.

When the message "Now connect the interface cable to the PC. This will finalize the driver's installation and settings." appears, click the [OK] button.

NOTES

A message prompting you to restart your computer may appear after installation is finished. If this message appears, click [Yes] to restart your computer.

14 Connect the machine to your computer an interface cable (page 24).

- If you are using a USB cable, make sure the machine power is turned on and then connect the cable.
- If you are using a parallel cable, turn off both the machine power and the computer power and then connect the cable. Turn the machine power on first and then turn on your computer.

The machine is found and a plug and play window appears.

15 Installation of the printer driver begins.

The printer name will appear in the "Found New Hardware Wizard". Select "Install the software automatically (Recommended)" and click the [Next] button. Follow the on-screen instructions to install the printer driver.

This completes the installation.

Installation method 3

Use this procedure to install the software in the following environments:

- 1. The printer is connected by USB cable.
- 2. Windows version: Windows 98/Me/2000*1

NOTE

*1 To install the software using the installer, you must have administrator's rights.

Installing the software in Windows 98/Me or Windows 2000 (USB/interface)

Install the software as follows.

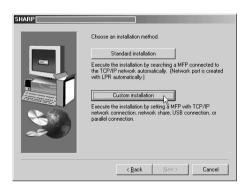
Before starting the installation, make sure the USB interface cable is not connected to the machine. The procedure for installing the printer driver is explained here using Windows Me as an example.

- 1 Insert the "Software CD-ROM" that accompanied the machine into your CD-ROM drive.
- 2 Double-click [My Computer], and then double-click the CD-ROM icon.
- 3 Double-click the [SETUP] icon.
- The Licence Agreement window will appear. Make sure that you understand the contents of the licence agreement, and then click the [Yes] button.
- 5 After confirming the message in the "Welcome" window, click the [Next] button.
- 6 Follow the on-screen instructions.
- **7** Click the [Printer Driver] button.

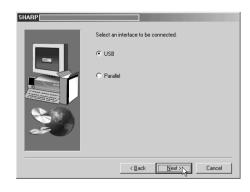
To view detailed information on the software, click the [Display Readme] button.



- **Q** Click the [Next] button.
- **Q** Click the [Custom installation] button.



- 10Click the [Connected to this computer] and click the [Next] button.
- 11 When you are asked to select the interface, select [USB] and click the [Next] button.



12When you are asked if you wish to install the display font, select an answer and click the [Next] button.



13Follow the on-screen instructions to install the printer driver.

If you are using Windows 2000 and a warning message regarding the digital signature appears while the printer driver files are being copied (the warning message may appear several times), be sure to click the [Continue Anyway] button.

14 When the finish setup window appears, click the [OK] button.

15 When the finish installation window appears, click the [Close] button.

When the message "Now connect the interface cable to the PC. This will finalize the driver's installation and settings." appears, click the [OK] button.

NOTE

A message prompting you to restart your computer may appear after installation is finished. If this message appears, click [Yes] to restart your computer.

16 Make sure that the machine power is turned on and connect the machine to your computer with a USB cable (page 24).

The machine is found and a plug and play window appears.

17Follow the instructions in the plug and play window to install the printer driver.

This completes the installation.

Installation method 4

Use this procedure to install the software in the following environments:

- 1. The printer is connected by parallel cable.
- 2. Windows version: Windows 95/98/Me/NT 4.0*1/2000*1

NOTE

*1 To install the software using the installer, you must have administrator's rights.

Installing the software in Windows 95/98/Me or Windows NT 4.0/2000 (Parallel interface) Install the software as follows.

Before starting the installation, make sure the parallel interface cable is not connected to the machine.

The procedure for installing the printer driver is explained here using Windows Me as an example.

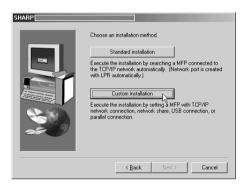
- Insert the "Software CD-ROM" that accompanied the machine into your CD-ROM drive.
- 2 Double-click [My Computer], and then double-click the CD-ROM icon.
- 3 Double-click the [SETUP] icon.
- The Licence Agreement window will appear. Make sure that you understand the contents of the licence agreement, and then click the [Yes] button.
- 5 After confirming the message in the "Welcome" window, click the [Next] button.
- 6 Click the [Printer Driver] button.

To view detailed information on the software, click the [Display Readme] button.

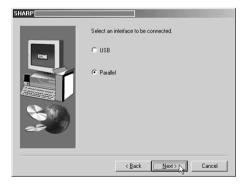


7 Click the [Next] button.

Q Click the [Custom installation] button.

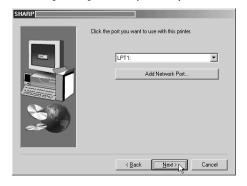


- **9** Click the [Connected to this computer] and click the [Next] button.
- 10 When you are asked to select the interface, select [Parallel] and click the [Next] button.



11 Select the printer port and click the [Next] button.

Select [LPT1] for the printer port.



- 12When you are asked to select the model name, select the model that you are using and click the [Next] button.
- 13Check the contents of the window and click the [Next] button.

Installation of the printer driver begins.

NOTE

When you are using Windows 2000/XP/Server 2003

If a warning message regarding the Windows logo test or digital signature appears, be sure to click the [Continue Anyway] or [Yes] button.

- 14 Select the printer driver being installed as the default printer and click the [Next] button.
- 15When the printer name window appears, click the [Next] button.

If you wish to change the printer name, enter the desired name.

16 When you are asked if you wish to install the display font, select an answer and click the [Next] button.



- 17Follow the on-screen instructions to install the printer driver.
- 18 When the finish setup window appears, click the [OK] button.
- 19When the finish installation window appears, click the [Close] button.

When the message "Now connect the interface cable to the PC. This will finalize the driver's installation and settings." appears, click the [OK] button.

NOTE

A message prompting you to restart your computer may appear after installation is finished. If this message appears, click [Yes] to restart your computer.

20 Turn off both the machine power and the computer power and then connect the parallel cable (page 24).

After connecting the cable, turn the machine power on first and then turn on your computer.

This completes the installation.

UNINSTALLING PRINTER DRIVERS AND PRINTER UTILITIES

When uninstalling a printer driver that has been installed from the Add Printer wizard, right-click the printer to be deleted from "Printers" of "Control Panel" and select [Delete]. When uninstalling a printer driver that has been installed using the installer, the Printer Administration Utility or the Printer Status Monitor, use "Add/Remove Programs" of "Control Panel". Use the Windows standard operation for each case.

INSTALLING PRINTER DRIVERS USING THE "ADD PRINTER WIZARD"

Before installation

Before installing the printer drivers, check the following items.

• Ensure that your computer system meets the following requirements.

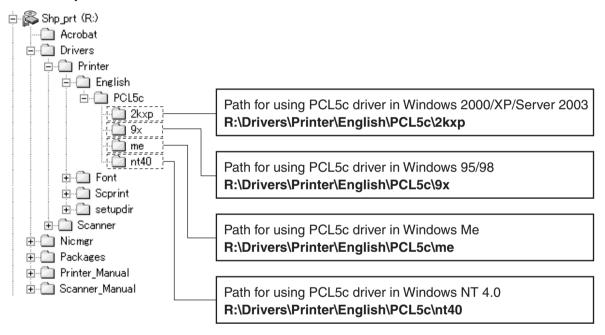
Computer type:

IBM PC/AT or compatible computer Hardware requirements of the operating system must be satisfied.

Operating system:

Microsoft Windows 95
Microsoft Windows 98
Microsoft Windows Me
Microsoft Windows 2000 Server/Professional
Microsoft Windows NT 4.0 (Service Pack 3 or later)
Microsoft Windows XP Professional/Home Edition
Microsoft Windows Server 2003

When using the "Add Printer Wizard" to install printer drivers, enter the directory name indicated below as a source directory.



■ Example of installation of a printer driver using the "Add Printer Wizard" in Windows XP

The method for installing a printer driver using the "Add Printer Wizard" in Windows XP is shown below. The installation example assumes that the printer is connected as a local printer (see "CONNECTING THE MACHINE TO YOUR COMPUTER" on page 24) and that the CD-ROM drive is drive "R". The procedure may differ depending on the system environment.

- **1** Start Windows XP.
- 2 Insert the supplied CD-ROM into the CD-ROM drive.
- 3 Click the [start] button, click [Control Panel], click [Printers and Other Hardware], and then click [Printers and Faxes].
- ▲ Click [Add a printer] in [Printer Tasks].
- Follow the on-screen instructions.

To specify the printer driver path, enter the following path:

R:\Drivers\Printer\English\PCL5c\2kxp

■ Installing PCL Display Fonts

The PCL display fonts are fonts displayed on your computer screen. The "Software CD-ROM" contains the PCL display fonts that correspond to the resident fonts in the machine. These display fonts can be installed to your computer (Windows 95/98/Me/NT 4.0/2000/XP/Server 2003) from the installer. When installing the PCL display fonts using the Windows installation procedure instead of the installer ([Start] - [Settings] - [Control Panel] - [Fonts] - [Install] - [New Font]), specify the following path.

R:\Drivers\Printer\Font\PCLFont (Where "R" represents the letter of your CD-ROM driver.)

INSTALLING AND USING THE TWAIN DRIVER

The procedures for installing and using the TWAIN driver are explained below.

NOTE

- The TWAIN driver can only be used on a network port. It cannot be used on a parallel port or USB port. For information on network environments, see page 5.
- To use the TWAIN driver in a Windows NT 4.0 environment, you must have administrator rights.
- There are two methods for installing the TWAIN driver: installation using the integrated installer as explained in this manual, and installation by specifying the INF file (for the WIA/STI driver) from the operating system. If you will be using the TWAIN driver, it is recommended that you install it using the integrated installer. A driver installed by specifying the INF file and a driver installed with the integrated installer cannot coexist.

If a driver that was installed by specifying the INF file already exists, delete it before installing the TWAIN driver with the integrated installer.

Before installation

Check the following before installing the TWAIN driver:

• Make sure that your computer system meets the requirements below.

Computer type:

IBM PC/AT or compatible computer

Hardware requirements of the operating system must be satisfied.

Operating system:

Microsoft Windows 95

Microsoft Windows 98

Microsoft Windows Me

Microsoft Windows 2000 Server/Professional

Microsoft Windows NT 4.0 (Service Pack 3 or later)

Microsoft Windows XP Professional/Home Edition

Microsoft Windows Server 2003

(Cannot be used on Windows NT 4.0 Terminal Server.)

Installing the TWAIN driver

The procedure for installing the TWAIN driver is explained below.

- 1 Insert the "Software CD-ROM" that accompanied the machine into your CD-ROM drive.
- 2 Click the [start] button, click [My Computer], and then double-click the CD-ROM icon.

In Windows 95/98/Me/NT 4.0/2000, double-click [My Computer], and then double-click the CD-ROM icon.

- 2 Double-click the [SETUP] icon.
- The Licence Agreement window will appear. Make sure that you understand the contents of the licence agreement, and then click the [Yes] button.
- 5 After confirming the message in the "Welcome" window, click the [Next] button.

6 Click the [Utility Software] button.

To view detailed information on the software, click the [Display Readme] button.



- If you wish to install the printer driver, see "INSTALLING THE PRINTER DRIVER AND UTILITIES (SOFTWARE INSTALLATION)" on pages 4 through 16.
- If you wish to install the printer administration utility, click the [Administrator Tools] button in this window and then click the [Printer Administration Utility] button and follow the on-screen instructions.

7 Click the [Scanner Driver (TWAIN)] button.



- 8 Click the [OK] button.
- **9** When the window for finishing setup appears, click the [Finish] button.
- 10^{Click} the [Close] button.

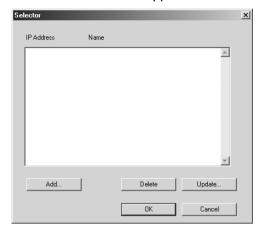
This completes the installation procedure.

Setting the IP address

The "TWAIN IP Selector" application is installed at the same time as the TWAIN driver. The procedure for setting the IP address using the "TWAIN IP Selector" is explained below.

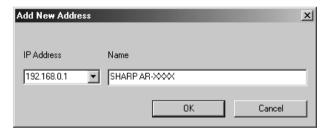
1 Click the "Start" button and select "Programs", "SHARP MFP TWAIN C", and "TWAIN IP Selector".

The "Selector" window appears.



Click the "Add" button.

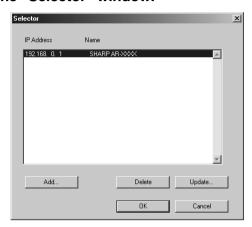
The "Add New Address" window appears and the machine is automatically detected on the network.



3 Select "IP address" of the machine that you are using and click the "OK" button.

Be sure to ask your network administrator for the IP address.

4 Check "IP address" and "Name" shown in the "Selector" window.



If you need to change the name, click the "Update" button.

This completes the procedure for setting the IP address.

Scanning with the TWAIN driver

The TWAIN driver (SHARP MFP TWAIN C) complies with the international TWAIN standard and can be used with many TWAIN-compliant software applications.

The example of scanning with Imaging* in Windows 2000 is explained below. Follow the same steps to scan with other applications in other operating systems.

* Imaging is an accessory in Windows.

[Place the original and switch the machine to PC SCAN mode]

- 1 Place the original on the document glass or in the reversing automatic document feeder.
 - For information on placing the original, see page 4-6 of "Operation Manual (for general information and copier operation)".
 - Only one side of an original can be scanned using the SHARP TWAIN driver.
 - Some versions of Windows and some software applications may not allow multiple originals to be scanned.

NOTE

When placing the original, make sure that it is straight.

2 Touch the [PC SCAN] key in the touch panel.

The display will change to PC SCAN mode and the TWAIN driver can now be used.

NOTE

When you switch to PC SCAN mode,

- Operation using the operation panel is disabled, with the exception of pressing the [CA] key and [C] key and touching the [EXIT] key in the touch panel.
- New print jobs will not be accepted.

[Select the device]

3 Start Imaging and select "Select Device" from the "File" menu.

The "Select Device" window appears.



NOTE

The procedure for selecting the device varies by application. See the manual or Help for the application you are using.

4 Select the TWAIN driver of the machine in the "Select Device" window and click the "OK" button.

[Open the TWAIN driver]

5 Select "Acquire Image" from the "File" menu.

The TWAIN driver settings window appears.





NOTE

If a window appears prompting you to set the IP address, set the IP address and then click the "OK" button to close the window. (See page 21.)

[Select scan settings]

6 Select scan settings for the TWAIN driver. When finished, click the "Preview" button.

An image of the original will appear in the TWAIN driver. If the image is not satisfactory, adjust the settings and then check the preview screen again.

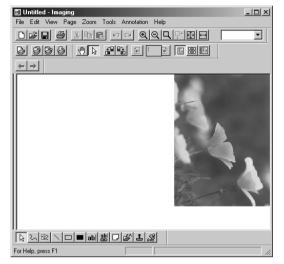
NOTE

For information on selecting scan settings and specifying the scanning area, click the view Help.

[Scan the original and save the image]

7 When you have finished selecting scan settings, click the "Scan" button.

The scanned image will appear in Imaging.



If you need to cancel scanning at the machine, press the [C] key or the [CA] key.

NOTE

If you scan a large area in full colour at high resolution, scanning will take a long time. Be sure to select scan settings that are appropriate for the original (text, photo, monochrome, etc.).

A Save the scanned image.

Select "Save As" from the "File" menu and save the image.

9 Touch the [EXIT] key in the touch panel to quit PC SCAN mode.

This completes the procedure for scanning with the TWAIN driver.

NOTE

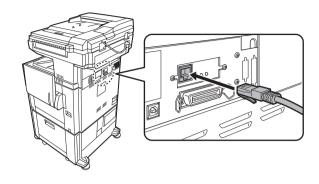
Follow the same procedure to scan using the Sharpdesk application in the Network Scanner Expansion Kit (AR-NS2).

CONNECTING THE MACHINE TO YOUR COMPUTER

■ Connection with a network connector

If you will be using the machine as a network printer, see the online manual ("Print Server Card Users Manual") on the "Software CD-ROM".

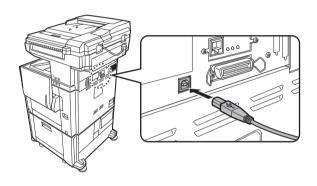
Use a network cable that is shielded.



■ Connection with a USB cable

Please purchase a USB cable (shielded) that complies with the following standard.

The USB interface on the machine complies with the USB1.1 standards.

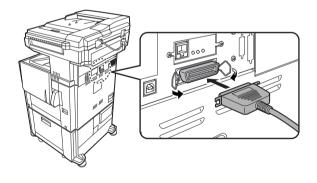


■ Connection with a parallel interface cable

Please purchase a Centronics cable (shielded) that complies with the following standard.

The parallel interface on the machine complies with IEEE-STD-1284-1994 ECP.

Connector type (on machine): 36-pin DDK 57LE-40360-730B (D29) female connector



INSTALLATION GUIDE/TWAIN DRIVER OPERATION MANUAL

